

Infant Deaths

Definition: Number of infants who died before their first birthday (under 365 days), after being born alive, per 1,000 live births.

Healthy People 2010 Objective 16-1c: All Infant deaths (within 1 year) (per 1,000 live births)

- U.S. Target for 2010: 4.5
- State-specific Target: 4.5

Why Is It Important?

The infant death rate is an important measure of a nation's health and a world-wide indicator of health status and social well-being. It is a critical indicator of the health of a population. Three causes account for more than half of all infant deaths: birth defects, conditions in the perinatal period (includes disorders of short gestation and can reflect the overall state of maternal health, as well as the quality and accessibility of primary health care for pregnant women), and SIDS. Other conditions include deaths due to unintentional and intentional injuries. Infant mortality, when resulting from a complicated delivery, is associated with increased risk of maternal mortality.

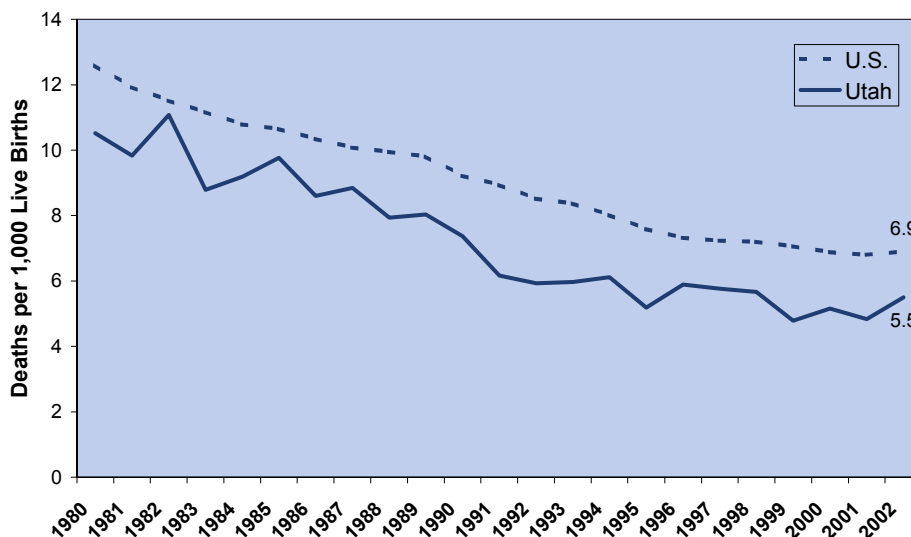
Risk Factors for Infant Deaths

Some of the mother's behaviors during the prenatal period, such as smoking and using alcohol, increase the risk of infant mortality.

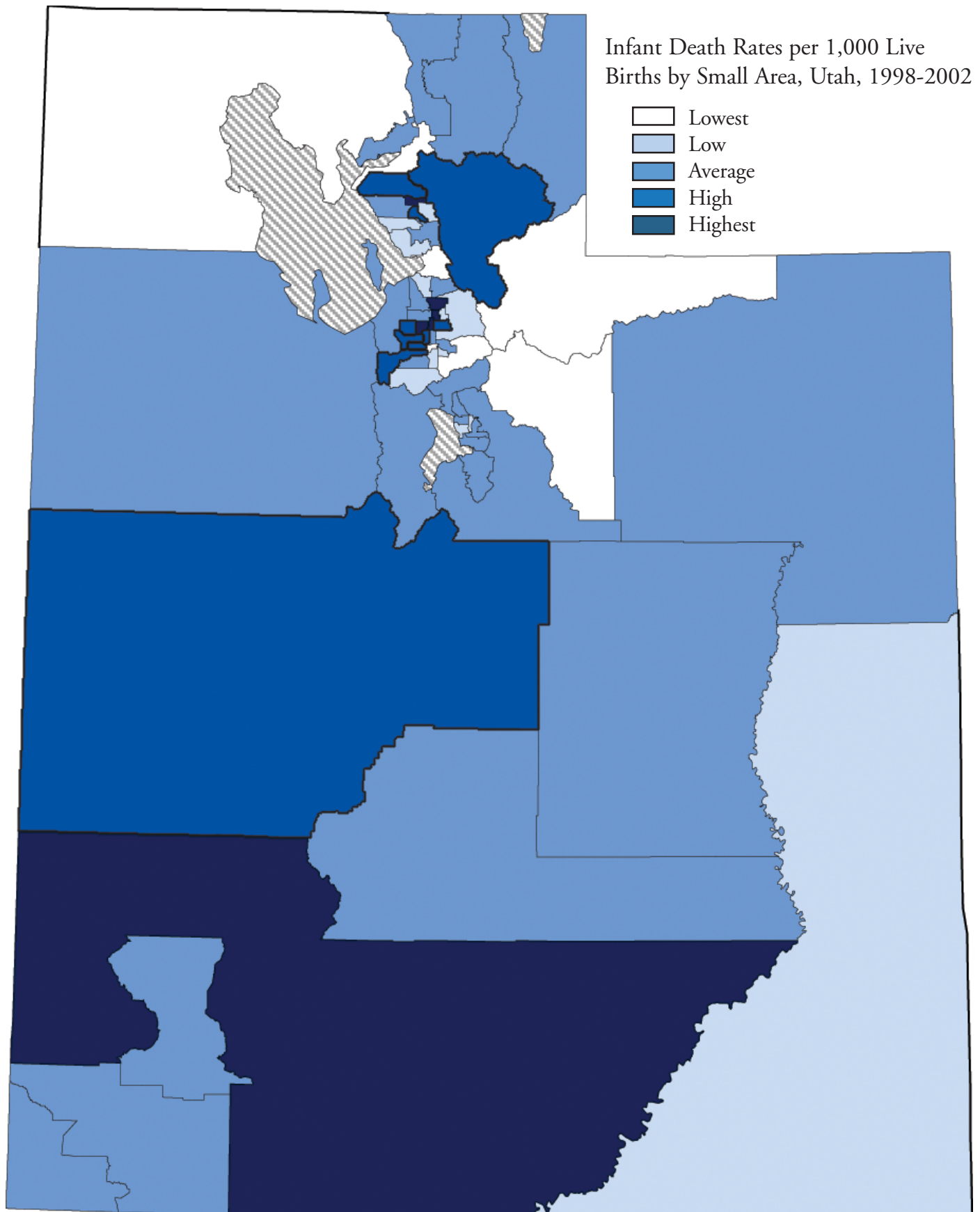
Infant Death Ranking, 1998-2002	Rate*
Sandy, SE	2.3
Farmington/Centerville	2.8
Other Box Elder Co.	3.0
Summit Co.	3.1
Midvale	3.2
Wasatch Co.	3.2
East Orem	3.3
Holladay	3.5
Syracuse/Kaysville	3.6
Foothill/U of U	3.7
Grand/San Juan Co.	3.8
South Ogden	3.9
Sandy, NE	4.0
Woods Cross/No. SL	4.0
West Orem	4.1
Clearfield/Hill AFB	4.1
Riverton/Draper	4.1
Sandy Center	4.2
St. George	4.3
Pleasant Grove/Lindon	4.3
Springville/Spanish Fork	4.4
South Jordan	4.6
Murray	4.7
Layton	4.8
Provo/BYU	4.8
Rose Park	4.8
Roy/Hooper	4.9
Magna	4.9
Lehi/Cedar Valley	4.9
Carbon/Emery Co.	5.0
Other Cache/Rich Co.	5.0
North Orem	5.0
Cottonwood	5.1
Glendale	5.1
Brigham City	5.1
Cedar City	5.1
Sevier/Piute/Wayne Co.	5.1
Provo South	5.2
Logan	5.2
TriCounty LHD	5.2
Tooele Co.	5.3
Other Washington Co.	5.3
Bountiful	5.5
Utah Co. South	5.5
American Fork/Alpine	5.5
Morgan/E Weber Co.	5.6
W. Jordan, Copperton	5.9
Taylorsville	6.0
West Valley West	6.3
Millcreek	6.4
Riverdale	6.5
Juab/Millard/Sanpete Co.	6.7
Kearns	6.7
West Jordan No.	6.8
Ben Lomond	6.9
South Salt Lake	7.2
West Valley East	7.3
Downtown Ogden	7.4
Downtown Salt Lake	7.9
Other Southwest Dist	9.1
Avenues	9.5

* Rate per 1,000 live births.

Infant Death Rates (Under 1 Year of Age), Utah and U.S., 1980-2002



Sources: Office of Vital Records and Statistics, Utah Department of Health; National Vital Statistics System, National Center for Health Statistics, U.S. Centers for Disease Control and Prevention
Note: U.S. 2002 data are provisional.



Source: Utah Death Certificate Database and Utah Birth Certificate Database

Infant Deaths by Small Area Utah, 1998-2002

Rank	Area of Residence	Average Number of Live Births	Infant Deaths per 1,000 Live Births		
			Average Annual Number of Events	Crude Rates	
				95% Confidence Interval**	
				Lower	Upper
	State Total	47,151	245	5.2	(4.9 - 5.5)
33	Brigham City	390	2	5.1	(2.5 - 9.4)
3	Other Box Elder Co.	405	1	3.0	(1.1 - 6.4)
38	Logan	1,455	8	5.2	(3.7 - 7.2)
30	Other Cache/Rich Co.	763	4	5.0	(3.0 - 7.8)
55	Ben Lomond	904	6	6.9	(4.7 - 9.7)
46	Morgan/East Weber Co.	496	3	5.6	(3.1 - 9.5)
58	Downtown Ogden	700	5	7.4	(4.8 - 10.9)
12	South Ogden	671	3	3.9	(2.1 - 6.6)
27	Roy/Hooper	817	4	4.9	(3.0 - 7.6)
51	Riverdale	494	3	6.5	(3.7 - 10.5)
15	Clearfield/Hill AFB	1,212	5	4.1	(2.7 - 6.1)
24	Layton	1,262	6	4.8	(3.2 - 6.8)
9	Syracuse/Kaysville	722	3	3.6	(1.9 - 6.2)
2	Farmington/Centerville	427	1	2.8	(1.0 - 6.1)
13	Woods Cross/North SL	399	2	4.0	(1.7 - 7.9)
43	Bountiful	766	4	5.5	(3.4 - 8.4)
24	Rose Park	784	4	4.8	(2.9 - 7.6)
61	Avenues	338	3	9.5	(5.4 - 15.4)
10	Foothill/U of U	433	2	3.7	(1.6 - 7.3)
27	Magna	530	3	4.9	(2.6 - 8.4)
33	Glendale	664	3	5.1	(3.0 - 8.2)
49	West Valley West	1,487	9	6.3	(4.6 - 8.4)
57	West Valley East	1,071	8	7.3	(5.2 - 10.0)
59	Downtown Salt Lake	857	7	7.9	(5.5 - 11.1)
56	South Salt Lake	559	4	7.2	(4.4 - 11.0)
50	Millcreek	993	6	6.4	(4.4 - 9.1)
8	Holladay	636	2	3.5	(1.7 - 6.2)
33	Cottonwood	554	3	5.1	(2.8 - 8.5)
52	Kearns	1,396	9	6.7	(4.9 - 9.0)
48	Taylorsville	737	4	6.0	(3.7 - 9.0)
23	Murray	593	3	4.7	(2.6 - 7.9)
5	Midvale	689	2	3.2	(1.6 - 5.7)
54	West Jordan No.	1,089	7	6.8	(4.8 - 9.4)
47	W. Jordan, Copperton	942	6	5.9	(3.9 - 8.6)
22	South Jordan	475	2	4.6	(2.3 - 8.3)
18	Sandy Center	994	4	4.2	(2.6 - 6.5)
13	Sandy, Northeast	301	1	4.0	(1.5 - 8.7)
1	Sandy, Southeast	351	1	2.3	(0.6 - 5.8)
15	Riverton/Draper	1,398	6	4.1	(2.8 - 6.0)
41	Tooele Co.	909	5	5.3	(3.4 - 7.9)
27	Lehi/Cedar Valley	892	4	4.9	(3.1 - 7.5)
43	American Fork/Alpine	869	5	5.5	(3.5 - 8.2)
19	Pleasant Grove/Lindon	891	4	4.3	(2.6 - 6.7)
30	North Orem	1,031	5	5.0	(3.3 - 7.4)
15	West Orem	784	3	4.1	(2.3 - 6.6)
7	East Orem	419	1	3.3	(1.3 - 6.9)
24	Provo/BYU	1,004	5	4.8	(3.1 - 7.1)
38	Provo South	1,863	10	5.2	(3.8 - 6.8)
21	Springville/Spanish Fork	1,462	6	4.4	(3.0 - 6.2)
43	Utah Co. South	652	4	5.5	(3.3 - 8.7)
4	Summit Co.	456	1	3.1	(1.2 - 6.3)
5	Wasatch Co.	310	1	3.2	(1.0 - 7.5)
38	TriCounty LHD	763	4	5.2	(3.2 - 8.1)
52	Juab/Millard/Sanpete Co.	747	5	6.7	(4.3 - 9.9)
33	Sevier/Piute/Wayne Co.	389	2	5.1	(2.5 - 9.4)
30	Carbon/Emery Co.	484	2	5.0	(2.6 - 8.7)
11	Grand/San Juan Co.	367	1	3.8	(1.5 - 7.9)
19	St. George	987	4	4.3	(2.6 - 6.5)
41	Other Washington Co.	829	4	5.3	(3.3 - 8.0)
33	Cedar City	662	3	5.1	(3.0 - 8.2)
60	Other Southwest Dist.	372	3	9.1	(5.3 - 14.6)

Source: Utah Death Certificate Database and Utah Birth Certificate Database, Office of Vital Records and Statistics, Utah Department of Health

Definition: Percentage of live-born infants weighing less than 2500 grams (about 5.5 pounds).

Healthy People 2010 Objective 16-10a: Low birth weight (LBW), infants (less than 2,500 grams)

- U.S. Target for 2010: 5.0%
- State-specific Target: 5.0%

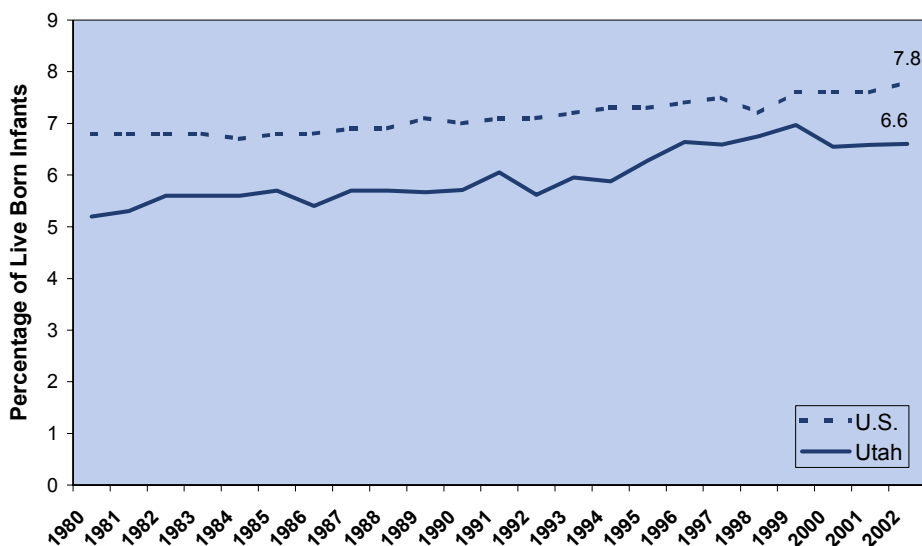
Why Is It Important?

Low birth weight increases the risk for infant mortality and morbidity. As birth weight decreases, the risk for death increases. Low birth weight infants who survive often require intensive care at birth, may develop chronic illnesses, and later may require special education services. Health care costs and length of hospital stay are higher for low birth weight infants. Utah data indicate that for infants weighing between 1,500 and 2,499 grams costs are six times higher, and almost 85 times higher for newborns with a birth weight less than 1,500 grams.

Risk Factors for Low Birth Weight

Risk factors for low birth weight include: preterm births, maternal chronic disease (such as hypertension), maternal obstetric family history (such as having been born low birth weight themselves), multiple gestation (e.g. twins), low pre-pregnancy weight, tobacco or alcohol use during pregnancy, lack of or inadequate prenatal care, short intervals between pregnancies, previous pregnancy resulting in a low birth weight infant.

Percentage of Live Born Infants With Low Birth Weight,
Utah and U.S., 1980-2002

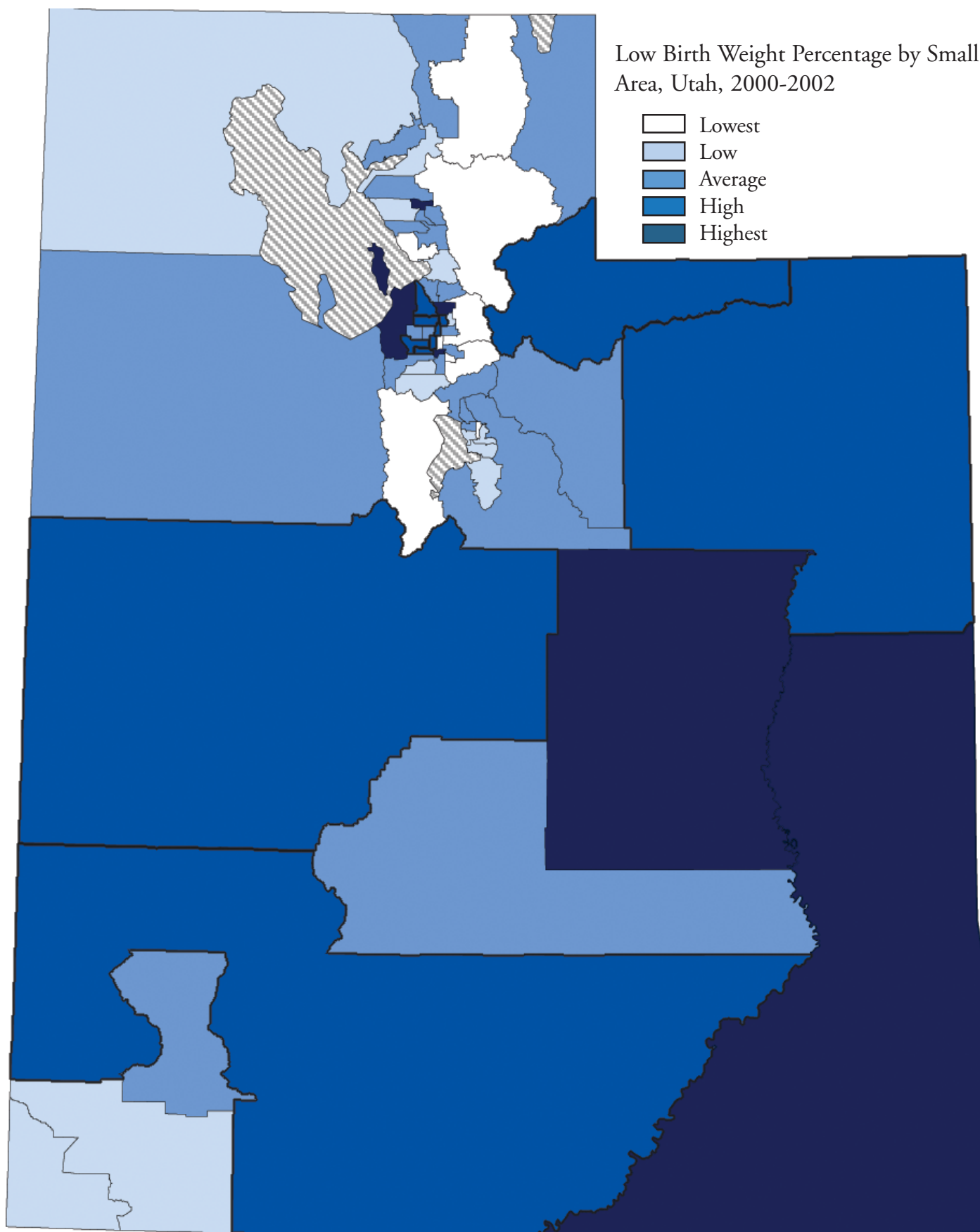


Sources: National Vital Statistics System, National Center for Health Statistics, U.S. Centers for Disease Control and Prevention; Office of Vital Records and Statistics, Utah Department of Health

Note: Low birth weight is defined as less than 2,500 grams (about 5 pounds, 8 ounces). U.S. 2002 data is preliminary.

Low Birth Weight Ranking, 2000-2002	Percent
East Orem	4.8%
Sandy, NE	4.8%
Syracuse/Kaysville	5.1%
Sandy, SE	5.3%
Holladay	5.4%
Lehi/Cedar Valley	5.4%
Morgan/E Weber Co.	5.4%
Murray	5.4%
Logan	5.4%
St. George	5.5%
Farmington/Centerville	5.5%
Provo South	5.6%
Provo/BYU	5.6%
Foothill/U of U	5.6%
South Jordan	5.6%
Springville/Spanish Fork	5.7%
Riverton/Draper	5.7%
Other Washington Co.	5.8%
Roy/Hooper	5.8%
West Orem	5.8%
Other Box Elder Co.	5.8%
Brigham City	5.9%
Other Cache/Rich Co.	5.9%
Riverdale	6.0%
Layton	6.1%
Bountiful	6.2%
Sandy Center	6.3%
Utah Co. South	6.3%
W. Jordan, Copperton	6.4%
Millcreek	6.5%
Woods Cross/No. SL	6.5%
Wasatch Co.	6.5%
North Orem	6.6%
American Fork/Alpine	6.6%
Cottonwood	6.7%
Sevier/Piute/Wayne Co.	6.7%
Cedar City	6.7%
Tooele Co.	6.9%
Clearfield/Hill AFB	7.0%
Pleasant Grove/Lindon	7.0%
South Ogden	7.1%
Ben Lomond	7.1%
West Valley East	7.2%
West Valley West	7.2%
Kearns	7.4%
South Salt Lake	7.5%
TriCounty LHD	7.5%
Downtown Salt Lake	7.5%
Other Southwest Dist	7.5%
Glendale	7.6%
Summit Co.	7.6%
West Jordan No.	7.6%
Juab/Millard/Sanpete Co.	7.7%
Taylorsville	7.8%
Rose Park	8.0%
Midvale	8.2%
Magna	8.2%
Avenues	8.7%
Downtown Ogden	9.4%
Carbon/Emery Co.	9.5%
Grand/San Juan Co.	11.0%

Low Birth Weight



Source: Utah Birth Certificate Database

Low Birth Weight by Small Area Utah, 2000-2002

Rank	Area of Residence	Average Number of Live Births	Low Birth Weight Percentage		
			Average Annual Number of Events	Crude Rates	
				95% Confidence Interval	
				Lower	Upper
	State Total	48,129	3172	6.6%	(6.5% - 6.7%)
22	Brigham City	391	23	5.9%	(4.6% - 7.5%)
18	Other Box Elder Co.	402	23	5.8%	(4.5% - 7.3%)
5	Logan	1,479	80	5.4%	(4.8% - 6.2%)
22	Other Cache/Rich Co.	768	46	5.9%	(5.0% - 7.0%)
41	Ben Lomond	950	68	7.1%	(6.2% - 8.2%)
5	Morgan/East Weber Co.	506	27	5.4%	(4.3% - 6.7%)
59	Downtown Ogden	696	65	9.4%	(8.1% - 10.8%)
41	South Ogden	674	48	7.1%	(6.0% - 8.3%)
18	Roy/Hooper	842	49	5.8%	(4.9% - 6.8%)
24	Riverdale	497	30	6.0%	(4.8% - 7.4%)
39	Clearfield/Hill AFB	1,251	88	7.0%	(6.2% - 7.9%)
25	Layton	1,276	78	6.1%	(5.4% - 7.0%)
3	Syracuse/Kaysville	762	39	5.1%	(4.2% - 6.1%)
10	Farmington/Centerville	427	24	5.5%	(4.3% - 7.0%)
30	Woods Cross/North SL	425	28	6.5%	(5.2% - 8.1%)
26	Bountiful	762	47	6.2%	(5.2% - 7.3%)
55	Rose Park	833	67	8.0%	(6.9% - 9.2%)
58	Avenues	325	28	8.7%	(7.0% - 10.8%)
12	Foothill/U of U	432	24	5.6%	(4.4% - 7.1%)
56	Magna	560	46	8.2%	(6.9% - 9.7%)
50	Glendale	674	51	7.6%	(6.4% - 8.9%)
43	West Valley West	1,507	108	7.2%	(6.4% - 8.0%)
43	West Valley East	1,084	78	7.2%	(6.3% - 8.1%)
46	Downtown Salt Lake	850	64	7.5%	(6.5% - 8.7%)
46	South Salt Lake	558	42	7.5%	(6.2% - 8.9%)
30	Millcreek	1,010	66	6.5%	(5.6% - 7.5%)
5	Holladay	646	35	5.4%	(4.4% - 6.5%)
35	Cottonwood	556	37	6.7%	(5.5% - 8.1%)
45	Kearns	1,426	105	7.4%	(6.6% - 8.2%)
54	Taylorsville	732	57	7.8%	(6.7% - 9.1%)
5	Murray	585	32	5.4%	(4.4% - 6.6%)
56	Midvale	696	57	8.2%	(7.0% - 9.5%)
50	West Jordan No.	1,180	90	7.6%	(6.7% - 8.6%)
29	W. Jordan, Copperton	959	62	6.4%	(5.5% - 7.4%)
12	South Jordan	502	28	5.6%	(4.5% - 7.0%)
27	Sandy Center	1,000	63	6.3%	(5.4% - 7.2%)
1	Sandy, Northeast	283	14	4.8%	(3.5% - 6.6%)
4	Sandy, Southeast	336	18	5.3%	(3.9% - 6.9%)
16	Riverton/Draper	1,523	87	5.7%	(5.1% - 6.5%)
38	Tooele Co.	976	67	6.9%	(5.9% - 7.9%)
5	Lehi/Cedar Valley	1,077	58	5.4%	(4.6% - 6.2%)
33	American Fork/Alpine	892	59	6.6%	(5.7% - 7.7%)
40	Pleasant Grove/Lindon	918	65	7.0%	(6.1% - 8.1%)
33	North Orem	1,030	68	6.6%	(5.7% - 7.5%)
18	West Orem	776	45	5.8%	(4.9% - 6.9%)
1	East Orem	435	21	4.8%	(3.6% - 6.1%)
12	Provo/BYU	1,001	56	5.6%	(4.8% - 6.5%)
12	Provo South	1,829	102	5.6%	(5.0% - 6.2%)
16	Springville/Spanish Fork	1,512	87	5.7%	(5.1% - 6.5%)
27	Utah Co. South	723	46	6.3%	(5.3% - 7.5%)
50	Summit Co.	480	36	7.6%	(6.2% - 9.1%)
30	Wasatch Co.	337	22	6.5%	(5.0% - 8.3%)
46	TriCounty LHD	791	59	7.5%	(6.4% - 8.7%)
53	Juab/Millard/Sanpete Co.	742	57	7.7%	(6.6% - 8.9%)
35	Sevier/Piute/Wayne Co.	391	26	6.7%	(5.3% - 8.4%)
60	Carbon/Emery Co.	472	45	9.5%	(8.0% - 11.3%)
61	Grand/San Juan Co.	351	39	11.0%	(9.1% - 13.2%)
10	St. George	1,017	56	5.5%	(4.7% - 6.4%)
18	Other Washington Co.	848	49	5.8%	(4.9% - 6.8%)
35	Cedar City	677	46	6.7%	(5.7% - 8.0%)
46	Other Southwest Dist.	353	27	7.5%	(6.0% - 9.4%)

Source: Utah Birth Certificate Database